

REMARKS

Claims 47-69 remain pending in this application. Claim 47 has been amended to more clearly claim the present invention. No new matter has been. In view of the above amendments and the following remarks, it is respectfully submitted that all of the pending claims are allowable.

Claims 47-51, 53-56, 58 and 60-69 stand rejected under 35 U.S.C. § 103(a) as unpatentable over U.S. Patent Application Publication No. 2001/0028305 to Bennett Jr. Et al. ("Bennett").

Amended claim 47 recites a sensor unit, comprising "a measured signal receiver registering a measured signal" and "an A/D converter digitizing the measured signal" and "a transceiver device wirelessly transmitting data to an environmental device" in combination with "a processor activating the measured signal receiver, the A/D converter, and the transceiver device in such a way, that *the measured signal is digitized and subsequently transmitted without signal processing after the A/D conversion*, via the transceiver device, to the environmental device, the environmental device being coupled to an analysis unit which converts the measured signal into a measured value."

In contrast, Bennet discloses a sensor 60, which provides an analog signal over a signal line 62 to an analog to digital (A/D) converter 64. *Bennett*, p. 3, ¶ 31; Fig. 3. The A/D converter digitizes the analog signal, and conducts the signal over a communication line 66 to a microprocessor 68. *Id.* The microprocessor 68 processes the digitized signal into a transmitter signal over a communication line 70, and may be transmitted to a transmitter module 24. *Id.* Thus, after digitization by the A/D converter, the digitized signal is processed before it is transmitted.

Therefore, it is respectfully submitted that Bennett does not show or suggest "a processor

activating the measured signal receiver, the A/D converter, and the transceiver device in such a way, that the *measured signal is digitized and subsequently transmitted without signal processing after the A/D conversion*,” as recited in claim 47.

Thus, it is respectfully submitted that claim 1 is not rendered obvious by Bennett and is thus allowable. Because claims 48-51, 53-56, 58 and 60-69 depend from, and therefore include, all of the limitations of independent claim 47, it is respectfully submitted that these claims are also allowable.

Claims 52, 57 and 59 stand rejected under 35 U.S.C. § 103(a) as unpatentable over Bennett in view of U.S. Patent Application Publication No. 2003/0174067 to Soliman.

Soliman discloses a method and apparatus for wireless remote telemetry using ad-hoc networks. *Soliman*, p. 1, ¶ 10. Soliman describes a remote metering unit 200 that is applicable to electrical utility meter reading, comprising a measurement device 200, a reading interface 204 which transforms light pulses to analog electrical pulses and transmits them to an analog multiplexer, where they pass to an A/D converter to convert them into digital signals. *Id.* at p. 4, ¶ 39; Fig. 2. The resulting signal is passed to a microprocessor 214, which calculates and stores total consumption. *Id.* Microprocessor 214 generates a consumption message to be transmitted to central controller 116. *Id.* at p. 4, ¶ 40; Fig. 1.

It is respectfully submitted that Soliman does not cure the above-described deficiencies of Bennett in regard to claim 47. Specifically, Soliman does not show or suggest a sensor unit comprising a “a processor activating the measured signal receiver, the A/D converter, and the transceiver device in such a way, that the *measured signal is digitized and subsequently transmitted without signal processing after the A/D conversion*,” as recited in claim 47. Because claims 52, 57 and 59 depend from, and therefore include, all of the limitations of claim 47, it is respectfully submitted that these claims are also allowable.

CONCLUSION

It is therefore respectfully submitted that all of the presently pending claims are allowable. All issues raised by the Examiner having been addressed, an early and favorable action on the merits is earnestly solicited.

Respectfully submitted,

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